

**Commonwealth of Kentucky
Division for Air Quality**

PERMIT APPLICATION SUMMARY FORM

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GENERAL INFORMATION:

Name:	Hampshire Chemical Corporation
Address:	5529 U. S. 60 East, Owensboro, Ky., 42303
Date application received:	December 14, 1998
SIC/Source description:	2821
AFS(10-digit) Plant ID:	21-059-00155
EIS #:	072-0920-0155 (old)
Application log number:	F936
Permit number:	V-00-004

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
__Administrative	<input checked="" type="checkbox"/> Title V
__Minor	<input type="checkbox"/> Synthetic minor
__Significant	<input type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input checked="" type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input checked="" type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:017, 1(23)(b) or 51:052,1(14)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☐ Source applied for federally enforceable emissions cap
- ☒ Source provided terms for alternative operating scenarios
- ☒ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☐ Diagrams or drawings included
- ☒ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Actual (tpy)	Potential (tpy)
PM	N/A	N/A
SO ₂	N/A	N/A
NO _x	N/A	N/A
CO	N/A	N/A
VOC	137.02	293.26
LEAD	N/A	N/A
HAP \geq 10 tpy (by CAS)		
106-99-0 (1,3-Butadiene)	3.77	170.05
67-56-1 (Methanol)	10.08	13.09
80-62-6 (Methyl methacrylate)	.67	16.39
108-05-4 (Vinyl acetate)	2.53	22.10
75-35-4 (Vinylidene chloride)	7.18	84.29

SOURCE PROCESS DESCRIPTION:

Hampshire Chemical Corporation (“Hampshire”) owns and operates a batch chemical manufacturing facility in Owensboro, Kentucky. This source is a major source for VOCs and HAPs. The primary activity at the Owensboro facility is the production of various latex polymers, which falls under SIC code 2821. There are five primary production processes at the facility. They are Butadiene Copolymers (COPOL), Polyvinylidene Chloride (DARAN), Acrylic Polymers (DAXAD), Polyurethane (HYPOL), and Polyvinyl Acetate (PVA). There is an experimental reactor that produces 2,3-Dimethyl 2,3-Dinitrobutane (DMDNB). The facility also contains raw material and product storage tanks and a wastewater treatment facility. The COPOL process is subject to 40 CFR 63, Subpart U – National Emission Standards for Hazardous Air Pollutant Emissions, Group 1 Polymers and Resins.

EMISSION AND OPERATING CAPS DESCRIPTION:

Pursuant to 401 KAR 63:020, Hampshire is limited to emitting toxic air pollutants so that emission concentrations at the site perimeter do not exceed chronic reference exposure levels. This permit does not contain any operating limits.

OPERATIONAL FLEXIBILITY:

Though production reactor trains and product storage tanks are identified in the permit by the primary product that they produce or store, this permit does not preclude Hampshire from cross-utilizing equipment or tanks as business needs dictate. Section H (Alternate Operating Scenarios) describes additional record keeping and modeling requirements to ensure continued compliance with the permit limits.